



	GRADE	English	Math	Science	Social Studies/ Sciences	SD Required Electives	Career & Technical Education Courses	SAMPLE Career Options Relating to This Pathway
Interest Inventory Administered and Plan of Study Initiated for all Students								
SECONDARY	9	* English I	* Algebra I	* Physical Science	* World History  * Geography	* PE/Health  * Fine Art Elective	Introduction to Technical Education  Electronics	► Aeronautical Engineer ► Aerospace Engineer ► Agricultural Engineer ► Agricultural Technician ► Application Engineer ► Architectural Engineer ► Automotive Engineer ► Biomedical Engineer ► Biotechnology Engineer ► CAD Technician ► Chemical Engineer ► Civil Engineer ► Communications Engineer ► Computer Engineer ► Computer Programmer ► Construction Engineer ► Electrical Engineer ► Electronics Technician ► Geothermal Engineer ► Industrial Engineer ► Manufacturing Engineer ► Manufacturing Technician ► Marine Engineer ► Mechanical Engineer ► Metallurgist ► Mining Engineer ► Nuclear Engineer ► Petroleum Engineer
	10	* English II	* Geometry	* Biology I		2 units total - any combination of:  * World Language or	Introduction to Energy & Power  Mechatronics/Robotics	
	Academic/Career Advisement Provided - College Placement Assessments							
	11	* English III	Algebra II	Physics	* American History	* Computer Studies or Approved Career & Technical Education	Alternative Energy Systems  Introduction to Engineering	
	12	* English IV	Trigonometry  * AP Calculus or College Credit Math	* AP Chemistry	* U.S. Government  * Psychology	* Personal Finance or * Economics	Engineering Design & Development  Capstone Experiences	
The general course identified in this Program of Study are those required as part of S.D. Advanced Pathway to Graduation.								
POSTSECONDARY	Year 13	Written and Oral Communications	College Level Math	Natural Sciences	Social Studies/ Sciences	Computer Literacy		► Mining Engineer ► Nuclear Engineer ► Petroleum Engineer
	Year 14	Written Communications	Information Literacy			Wellness for Life Arts & Humanities		
	Year 15							
	Year 16							
† Blue Text - College Level - Dual Credit Underlined Text - Industry Certification Available						† Red Text - Courses can be articulated to Postsecondary Education * Classes available through Virtual School    ♦ Recommended academic		